

Demountable flood wall costs shown on Sheet 2 of 2 are for a 1,800 foot flood wall. The City of Vinton has proposed to scale back the flood wall to 1/3 of the original project size. Therefore, the \$8,100,630 project has been reduced to 1/3 of the original costs or approximately \$2,700,210. In addition, Vinton Municipal Electric Utility has paid for the surveying costs by Brain Engineering totaling \$9,800 bringing the grant request to \$\$2,710,010.



Stanley Consultants Inc.

Computed by Barb Veal Date 24-Jun-09
 Checked by Mike Helms Date 24-Jun-09
 Approved by _____ Date _____

Job No. 21956 Page No.
 Subject Construct a Demountable Floodwall - 9.5' high to protect 5 City buildings (Relayed to FEMA 09/22/2009)
 Sheet No. 1 of 1

Construct demountable wall surrounding 5 City of Vinton buildings
Year 2008 Flood Protection + 1' Freeboard
 (See Attached Figure)

Item Description	Quantity		Labor & Material	
	# Units	Unit Measure	\$/Unit	Total
Demountable Wall (9.5' Height)				
Length	1400	(LF)		
Reinforced Concrete	622	(CY)	\$600.00	\$373,333
Sheet pile (depth = 30')	4667	(SY)	\$252.00	\$1,176,000
Demountable Floodwall Area	13370	(SF)	\$200.00	\$2,674,000
Storm Sewers				
12" - 24" (Excavation, Install pipe, backfill & compaction, pavement removal/replacement)	100	(LF)	\$165.00	\$16,500
24" - 36" (Excavation, Install pipe, backfill & compaction, pavement removal/replacement)	100	(LF)	\$205.00	\$20,500
Storm Water Pump Structure with Discharge Pipe and Gate Well/Closure	2	(EACH)	\$150,000.00	\$300,000
Backup Generator	2	(EACH)	\$40,000.00	\$80,000
			Subtotal \$	4,640,333
			Undeveloped Design Details (15%) \$	696,050
			Contractor Overhead (15%) \$	800,458
			Contractor Profit (10%) \$	613,684
			Subtotal \$	6,750,525
			Engineering Design and Construction Phase Services (20%) \$	1,350,105
			Total \$	8,100,630

- Notes: 1) Cost does not include construction of building to store demountable wall sections.
 2) Costs based on minimum existing storm sewer utility information.
 3) Costs provided by Stanley Cost Estimating Department (2009)
 4) Detailed topographical or utility survey was not utilized to develop the conceptual cost estimate.
 5) Height of demountable wall is for protection to Year 2008 flood occurrence plus 1' freeboard (per FEMA - 09/22/2009).
 6) Flood protection alignment is to protect only the Vinton Municipal Utility buildings, the Fire Department building, and the City of Vinton Buildings near the riverfront.
 7) 2008 Flood Level for this cost estimate is determined from the current USACE flood study data. The Cedar River water profiles may be determined to be higher after the USACE develops the new study presently being conducted.

June 8, 2009

Mr. Rick Orht
General Manager
Vinton Municipal electric Utility
Vinton, IA

RE: Site Survey for Flood Abatement Design

Dear Mr. Orht:

We estimate a cost of \$9,800.00 for the survey as shown in the Site Survey specifications by Stanley Consultants.

The specifications are very detailed as to the density of the elevations required. An adjustment to the level of detail required would help the cost of the survey and still maintain the level of accuracy needed.

We would plan to complete the work within three weeks of notice to proceed.

If you have any questions, please call. Thank you for your consideration.

Sincerely,
Brain Engineering, Inc.



S. Michael Brain, PE & LS
Vice President